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(1	science. Hungarian and Gerintensive exchange of Gerinas equal to that of the U	tence was mainly under the influence of the same and science were at about the same and sungarian scientists. Prior United States and the United Kingdom; This situation, of course, has now	level and there was an to 1940 German science and, in some particular
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X1	pathways of celluserly development studies on physic techniques and the active isotopes in neuro-muscular mecomplex mercury deciynamics. Mansology of the thyras great deal of in all received Nobelmeister and Mansfeld have Sciencers Beznak	eived the Robel Prize for the discover lar metabolism. Zechmeister is noted of techniques of chromotography. Elogy of the inner ar and developed eir use in diagnostics. Hevesy made in tiological research. Beznak is knochanisms. Issekutz developed one of iuretics and conducted a number of feld and Issekutz made a great many oid gland. All these men whom I have nternational recognition. Szent-Gyoll prizes for medical research; and eld have been nominated for the Nobel had leading positions in the Rungar was elected President of the Biological war. This is one of the most import	d for the discovery and arany made the early the thermo-mystagmus the first use of radioover for his studies on the earliest organic asic studies on pharmastudies of the physic mentioned have receivered; Barany and Hevesyll Prize. Both Issekutz ian Academy of Matural cal Research Station at
X1	war there was a great deal Hungarian science, but mos not be possible. Therefor the West. Although it was these men managed to get c same time, there was also	living in one or another of the West of enthusiasm from all scientists t t people realized that under Communie, most scientists left the country verydifficult to obtain permission ut, most of them by crossing the borquite an exodus of younger and even	o raise the standards of st dominance this would to take up residence in to leave Hungary, some of der illegally. At the
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25X1 CONFIDENTIAL 25X1 Szent-Gyorsi 13 presently in the US and brought with him almost his entire staff of probably a dozen young investigators. He is working at the Marine Biological Laporstory at Woods Hole, Massachusetts. Unfortunately, because of lack of funds, he was able to heep only three of his assistants, and the others scattered to other parts of the US. Some of them are working at Harvard University and the University of Pennsylvania. Stent-Gyorgits main interest, and the main interest of the people who stayed with him in Wrods Hole, is the physiology of the contraction of ske etal muscle. Zechmilster, to my knowledge, is Professor at the California Institute of Tech-wlogy. Beznak is guest investigator at one of the British universities; and, recently has been invited by one of the foredran universities to be professor of physiology. Hevesy is a professor in Douberd. He has lived there for quite a long time. He was first of the group t. go abroad. Barany is dead. He was professor for a long time 4: a Swedish university, Mansfeld died in Hungary a few years ago. Issekutt to still Professor of Pharmacology at the University of Budapest, However, most of his consenorators and assistants ar abroad in various countries. For en Abel lyl and Fabinyi are in Sweden and John Szerb is at Dalhousie Univ . . n . . . . Many of Mans-25X1

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Since 1945 there were two important trends in Hungarian medical research. Arter 1945 there was great enthusiasm for raising the standards of research in the country, but very soon this enthusiasm faded when it was obvious that because of 25X1 Communist dominance no free research could be pursued. Within a few years most of the scientiats concentrated on trying to escape and taking up residence in one of the Western countries, rather than building up Hungarian research. Those who could, went to the West; and when it became practically impossible to cross the border legally or illegally, those who stayed in Hungary became resigned to their situation. However, research never assumed its old form, not only because the best people went abroad, but also because those who stayed at home probably did not have suitable environment, nor did they have the spirit to perform important research work. Also, the system hampered them a great deal. For example, each morning at 8:00 all members of all institutes at the University of Bunapest had to assemble and sing little Communist songs under the direction of the Professor in preparation for the annual May Day parade in which all the institutes had to participate and sing Communist songs. Several times each week the Political Commissar of the Institute called meetings and gave lectures on Communist ideology. There were meetings where every member of the Institute had to confess sins committed during the week against the Communists; and, although these meetings were quite ridiculous, they were compulsory and consumed a great deal of time. Also, we have gained the impression that the USSR does not particularly care what happens to research in the Satellite countries. Nevertheless, most of the Satellite countries tried to imitate the organization and rejentific methods of procedure used in the USSR. They tried to give top salaries to their scientists, at least as compared to some of the other people, especially the intellectuals in the country. They tried to give the scientists publicity, honors, and medals, but all these did not result in any improvement of the situation. Apparently most of the scientists were not in eny mood to do serious work and since the time of total Communist rule of Hungary, no significant contributions have emerged from Hungary, at least as far as we can see from the published results. It seems that there is no particular emphasis on any one field. The scientists are pretty well allowed to work in whatever manner they desire, but it appears that in the central military plans of the Communist bloc the scientific achievements of the Satellites are not playing a very important role.

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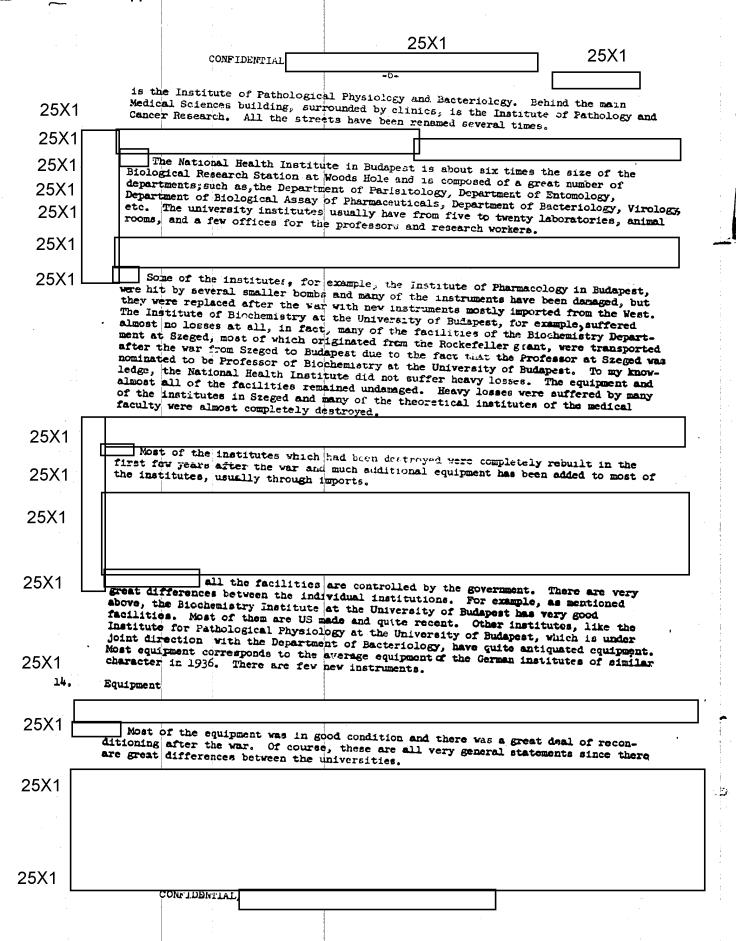
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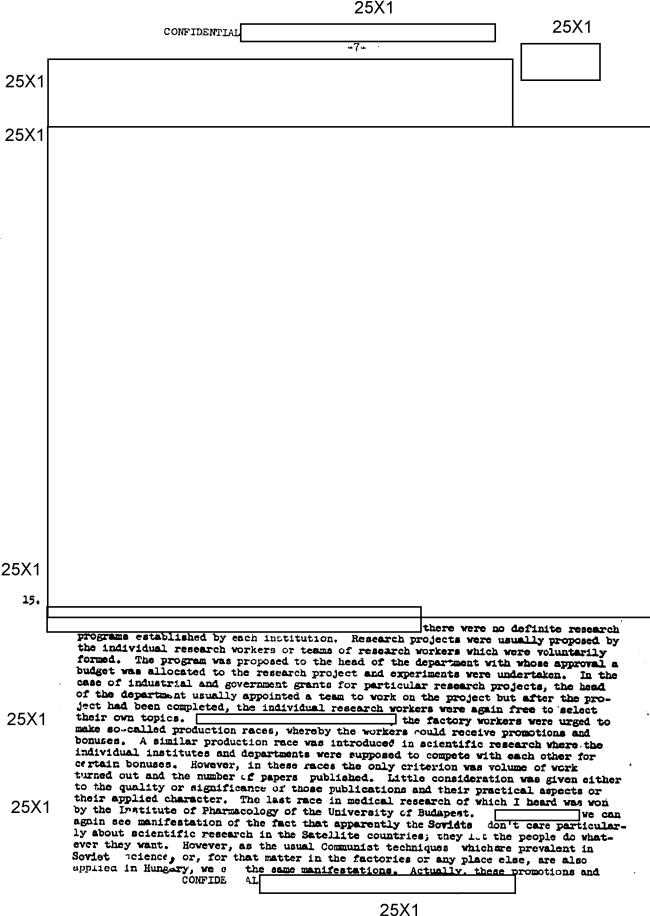
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	ORGANIZATION AND ADMINISTRATION OF MEDICAL RESEARCH ACTIVITIES
11.	This Total Transfer ACTIVITIES
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25X1 [	All universities in Hungary are state controlled and the M. nistry of Education is in charge of all these institutions. Also the Ministry of Defense is interested in directing research programs as any the state of the Ministry of Defense is interested in
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1.	their research programs, are under the direction of the Vincetter of Table
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25X1	
L	Most of the research activities are one nated by the National Academy of Natural
-	Sciences which plays a role similar , the National Research Council in the US; but is,
! ' !	individual institutes and a a consider the research report of the
i -	careers. I do not know of any constituents in directing their particular
	ties of various institutes,
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5X1	Most research projects are firmed by
	Most research projects are financed by the budget of the particular institute.  For example, in various medical schools each department or institute receives an annual budget, and these funds are financed by the budget of the particular institute.
1	workers by the chairman of the department at his own discretion. Within the frame of this budget the confirman or the department has the say as to which projects should be carried out and guide.
	has the state are sponsored
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	by one or another of the Ministries and usually special funds are allotted with those projects. Usually, in the case of those projects.
	by one or another of the Ministries and usually special funds are allotted with those projects. Usually, in the case of those project which are proposed by the individual research workers, the funds come from the deserver with the proposed by the individual
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	or Doctors of Medical Sciences. Most of these	clustifications envered in the section
->//	nungarian journals	ng because it shows which scientists are
5X1	in the Government's favor (they are classified and were either classified lower or not in the	higher) and those who are not in favor .
5X1	these ranks in the Academy are not merely	titles for they entitle the recipient
_	to certain salaries provided by the Academy.	
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-25/(1	The most important centers of research are of coties: The University of Budapest, the University	urse the four large medical universi-
	and the University of Debrecen. The fifth large Research Station of Tihany and the sixth is the	at institution is the Biological
25X1	Budapest. The latter was originally built and or	rganized as an institute of the
20,(1	Rockefeller Foundation, but later on it was taken in function to the National Institute of Health	in the US. It does a great deal of
	routine public health work, but there a also res	socialized, which have important
	research departments such as: Chinoin in Budapest	t, Wander in Budapest, and so on.
25X1	<del></del>	
20/11	The National Health Institute is located in E Medical School is scattered throughout the Gyati	section of the city. Physiology and
	Biochemistry are on Murgenenbërus. The main mediand medical libraries is on Veldër Street. Acros	ical building housing the Dean's office
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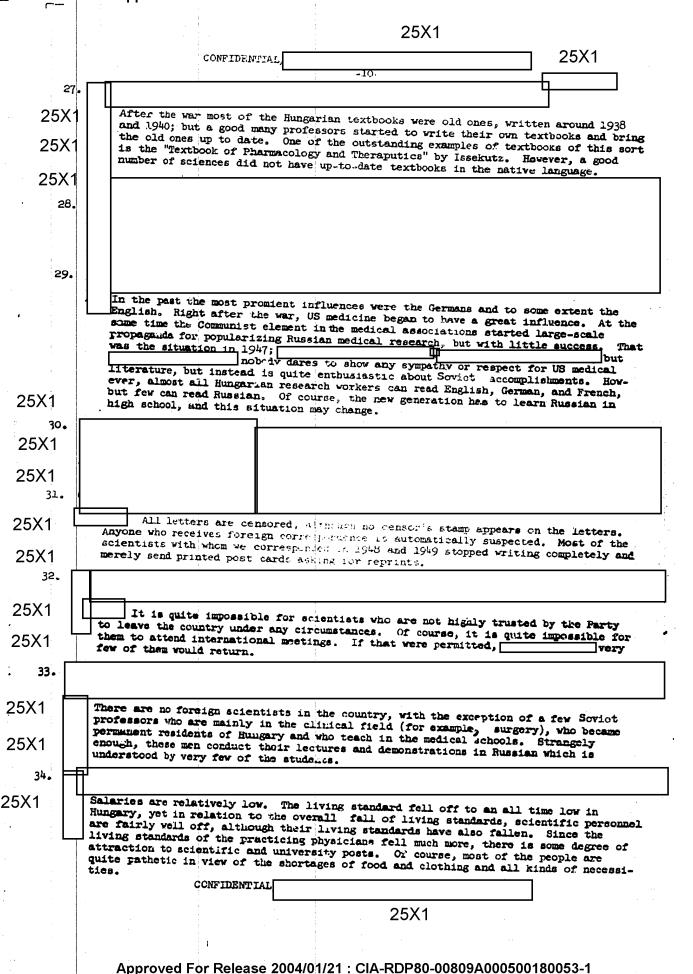


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25)	factors which greatly decrease the production of really valuable research in Hungarian medicine. There is a fairly well organized distribution of patients. In various universities and civic hospitals there are registers in which all patients are listed with their diagnoses. It is possible to select from these registers the particular cases in which a research worker is interested and request the hospital to transfer the patient to the department of the investigator who wants to work with that particular disease. The situation is similar to the out-patient departments and since all patients are now required to follow these recommendations, clinical material for clinical research should be abundant.
	RESEARCH PERSONNEL
16.	
25X1	Most of the members of the research institutions are older men, who received their training under the previous regime, however many of the younger men started their training under the previous regime but finished their training under the present regime. Obviously, most of the people in medical research are not Communistically inclined; but, of course, most of them joined the party in order to get some advantages.
25X1	In Hungary, in medical research "clusively, medical men, (ML s), are usually competent. There are very few PhPs in medical sciences, only about three or four in the whole country. Most of the medical research is done by people who first
25X1	carned on MD and then got advanced training in one of the theoretical institutes or possibly took a PhD in a related science such as o lemistry or physics.
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17.	
	A number of the younger scientists left the country and went to the West after the communist regime took over but there are a number of people who are left. Also, before the Communist regime took over, private practitioners were much better off financially than those who stayed in medical research. This, however, has changed since the Communist regime took over since now the practicing physicians are paid salaries by the state and thus there is no difference between these two classes. In some instances, people in medical sciences, especially after obtaining higher rank, are much better off financially; therefore, a great number of people who were really not research-minded and did not contemplate research, went into that field to fill the places of those who had left the country. There is a very great chortage of well-trained laboratory technicians. Indeed, laboratory technicians are very seldom seen in Hungarian institutes. Of course, there are janitors and untrained help, such as women who are employed to wash glassware and do some minor assisting, but there are no schools to train laboratory assistants undurually medical students are hired to do some of this work in their spare time. Most of the scientists, actually, have to do a great deal of the simpler technical work themselves because of the lack of trained technicians.  CONFIDENTIAL
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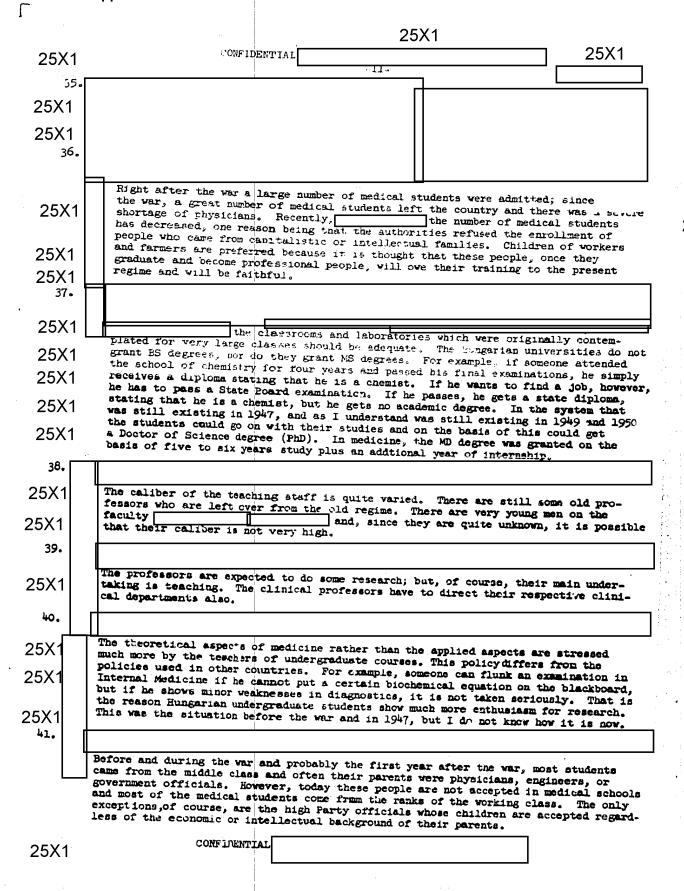
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	and experiment by the Hungar such as "Hung	nich is publish tal pathology ; ian Academy of	hed exclusivel papers is "Hum Natural Scien ca Acta" and "	onding to the AM y for physiolog garica Physiolo ces. There are Hungarica Medica	y, pharmacolog gica Acta" whi	ch is publish	try led
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5X1.	high schools, which are called Gymnasiums in Hungary, were very hard. It was an eight year course at the end of which the students had to pass a very difficult exam-
5X1	ination in their field of study. Those who passed the examination were ready to enter the university and take medical training. The first to years of medical school were spent studying the natural schenes and medical schenes, most of which are covered in college in the U.S. For example, in the first year, the student studies chemistry and physics and also a hatomy and emoryology. In the second year they study the medical schenes only; physiology, blochemistry, general biology, genetics, anatomy, and regional and singleal anatomy (this is actually second year anatomy). In the third year, they studied me e of the medical schenes; pathology, pharmacology, microbiology, public health, and pathology call physiology. They also carried chinical subject/, such as, internal medicine, diagnostics and singery. The fourth and fifth years were entirely clinical. The students had to serve a clinical clerkship, and the only theoretical subjects they had in these years were legal medicine and piblic health. All medical students were required to take a course in dentistry. After finishing these courses, no degree was granted; the students had to finish their internship first. There were several important examinations given during medical school. For example, after the first two years, the students had to take examinations in all the subjects striled so far and after the third year they had to pass examinations similar to those given by the State Boards—the US in all clinical subjects, public health, and legal
5X1	midicine.
43.	
25X1 25X1	There are very few organized postgraduate couses. However, usually, the young physician who has just received his MD spends a number of years in that particular branch of medicine in which he wants to work later on. For example, it is almost impossible to establish a practice before one has spent a number of years in, preferably, the University Hospital, which amounts, of course, to postgraduate training. After three to six years of residence in a hospital, one could apply for Specialty Board Examinations. In the theoretical medical sciences, it was customary for the young physicians to spend a number of years in the department of the field in which they want to specialize, and possibly spend a few years in departments of related sciences.
44.	<b>T</b>
5X1 5X1	There is no Master's degree. For the MD degree, the medical course mentioned above has to be finished together with internship, and the National Board Examination has to be passed. After this, the MD degree is granted without requiring a thesis. For the PhD degree, of course, all the courses have to be passed, and also the final examinations and the National Board Examination. In addition, a thesis has to be presented and publicly defended.
45.	
46.	
5X1	There is little direct aid given; however, itudents are usually nominated to some kind of post. In the university they are called Assistants or Assistant Instructors and they receive a small salary.
47.	
	The most important incentive is probably that it is practically impossible to find a job without some kind of clinical or institutional experience.  CONFIDENTIAL
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25X1 25X1 CONFIDENTIAL -13-48. 25X1 There are no provisions et all for foreign travel and study for postgraduate students at present. Right after the war there were a few fellowships available to the USSR, 25X1 but later on they were cancelled. After the war, of course, a few offers came from Western countries, chiefly, Switzerland, France, and the UK for fellowships. At that time a great number of students accepted them, but most of these students refused to return to Hungary, and, therefore, Hungary did not permit travel to foreign countries 25X1 thereafter. 49. there is no formal postgraduate training. Young physicians 25X1 simply spend a certain amount of time working in various academic institutes. Of course, they can work in the National Health Institute or the Biological Research Institute at Tihany. It is not customary to work in industrial phermaceutical laboratories if one is intending to pursue an academic career. 50. 25X1 All posts open in research institutes are filled; but whether they are filled with the right kind of people right now, and whether they will develop into outstanding scientists, is quite questionable. 51. 25X1 Almost all younger research workers including many members of the Communist Party (some joined out of mere opportunism, other joined out of some kind of conviction which, of course, was probably regretted by them later) stated that they would, if possible, go to Western countries and would gladly stay there. Those who did not attempt to go to the West, did not do so because either they did not have the confidence in their own abilities to establish themselves in foreign countries, or some other obstacle stopped them. It was the usual case in 1947 that anybody, at least most of the people in medical research, would be very happy if they could go to Western countries. Of course, those who stayed had to claim that they did not sympathize with Western ideas. The principal methods used to keep these people in the country are barbed wire, nine fields, police dogs, watch towers with armed guards, etc. It is almost impossible to secure a passport for travel or immigration into foreign countries. It is also almost impossible, because of the above mentioned factors, to leave the country illegally. Very few people who attempt this succeed, and many of them get killed in the attempt. 25X1 25X1 CONFIDENTIAL

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